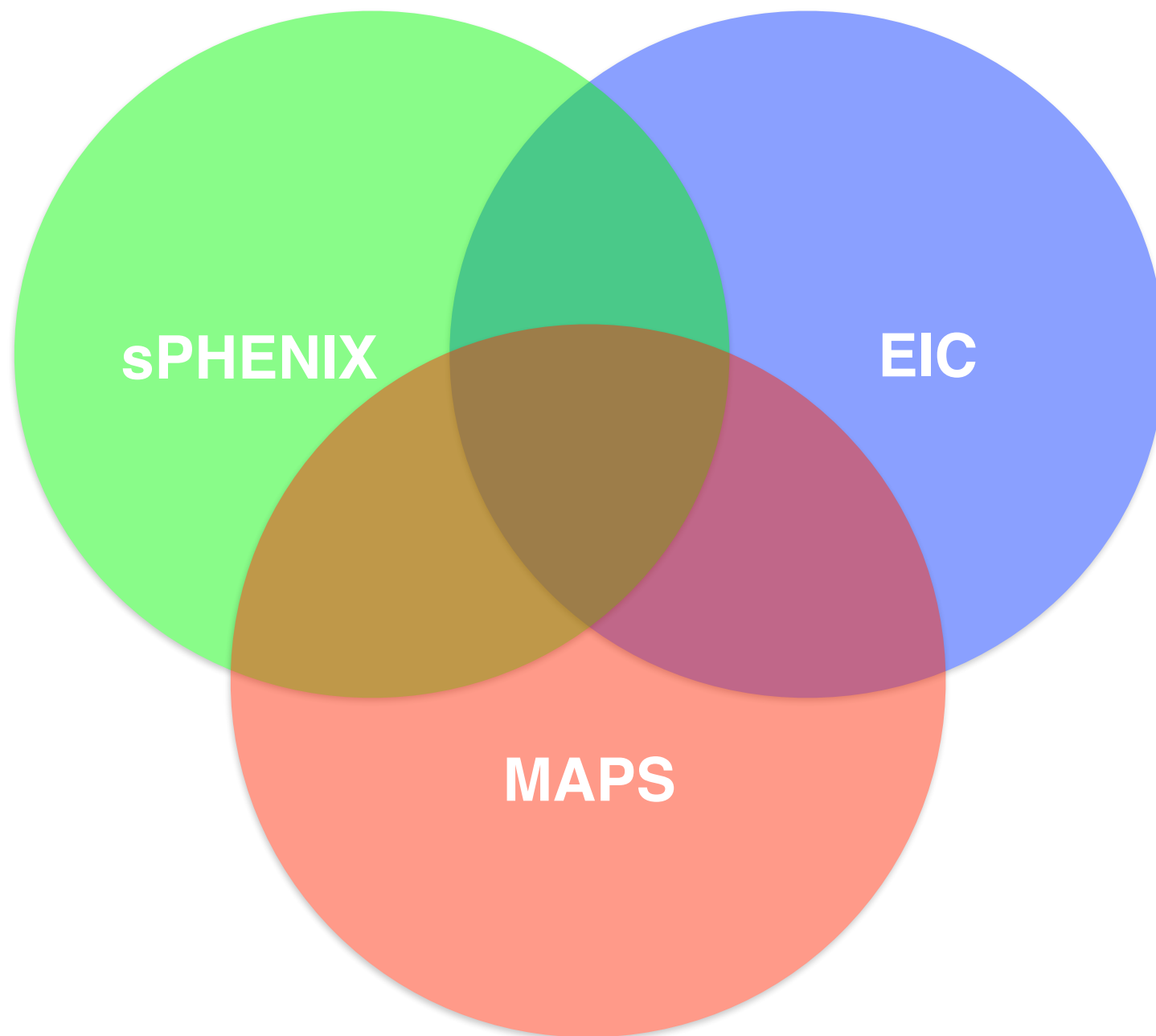


Some news, thoughts, questions regarding sPHENIX tracking

- how can we make sure all technological are explored vigorously?
- how can we sharpen the final decision making?
- how to get wider involvement?

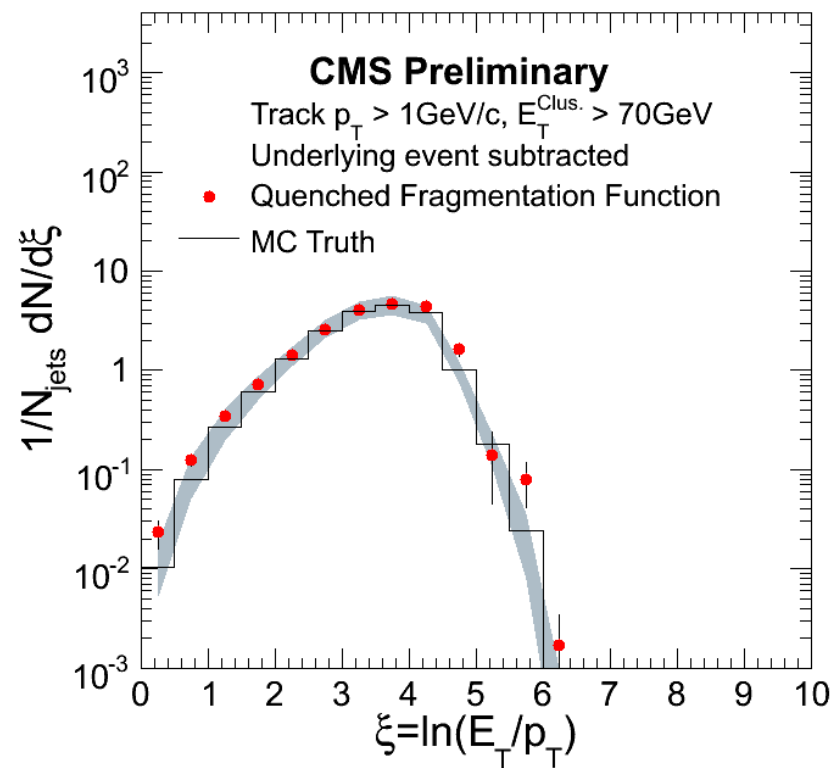


Many US NP groups/institutions see their future in one or the other of these areas

A significant number has interests in at least two topics; some even in all three. Discussions now within LBL, MIT and between LBL/LANL, MIT/LBL etc

Can one create a roadmap for the next decade towards EIC that allows a consortium of institutions to build a MAPS sPHENIX inner tracker?

Late March MAPS workfest is very timely



US CMS HI program got DOE approval based on detailed study of fragmentation function measurement in PbPb using 0.5/nb @5.2TeV

sPHENIX physics goal (“QGP microscopy”) will likely involve jet structure measurement beyond present state-of-the-art (LHC and elsewhere)

LHC experience (e.g. fragmentation functions) shows uncertainties from interference of jet finding/track finding/background subtraction performance

Ultimate physics performance difficult to judge based on simple performance measures (pt resolution, average efficiency etc)

Ideally, would make final design decisions based on complete case study for key measurements

Should we create “task forces” for a few (2-3) selected cases?

Many possible benefits, but possible mismatch of time scales - needs discussion

Request for feedback

Clearly, there is a need to increase overall sPHENIX workforce

Institutions that declared “interest” need to get involved

Make it easier for new institutions to understand status and progress of sPHENIX, and contribute to discussion

Proposal: Start organizing bi-weekly “general meetings” running 1-2h and providing news, status reports (spokespeople, project, task forces etc) and presentations on urgent/interesting issues